

1 FW/6

CRF Errors Edited by the STIC Systems Branch

Serial Number: 08/916,140

CRF Edit Date: 10/8/04

Edited by: KZ

Realigned nucleic acid/amino acid numbers/text in cases where the sequence
text "wrapped" to the next line

ENTERED

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID
NO's edited:

Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:

Sequence 1 - corrected spelling of "Beetle"



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/916,140

DATE: 10/08/2004
 TIME: 18:19:29

Input Set : A:\PTO.AMC.TXT
 Output Set: N:\CRF4\10082004\H916140.raw

P.6

4 <110> APPLICANT: Scott Mathew P.
 5 Goodrich, Lisa V.
 6 Johnson, Ronald L.
 7 Epstein, Ervin Jr.
 9 <120> TITLE OF INVENTION: PATCHED GENES AND USES RELATED THERETO
 12 <130> FILE REFERENCE: CIBT-P04-203
 14 <140> CURRENT APPLICATION NUMBER: US 08/916,140
 15 <141> CURRENT FILING DATE: 1997-08-21
 17 <150> PRIOR APPLICATION NUMBER: US 08/656,055
 18 <151> PRIOR FILING DATE: 1996-05-31
 20 <150> PRIOR APPLICATION NUMBER: US 08/540,406
 21 <151> PRIOR FILING DATE: 1995-10-06
 23 <150> PRIOR APPLICATION NUMBER: US 08/319,745
 24 <151> PRIOR FILING DATE: 1994-10-07
 26 <160> NUMBER OF SEQ ID NOS: 64
 28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 30 <210> SEQ ID NO: 1
 31 <211> LENGTH: 736
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Beetle
 35 <220> FEATURE:
 37 <221> NAME/KEY: misc_feature
 38 <222> LOCATION: 4, 5, 7, 8, 10, 11, 23, 34, 35, 36, 39, 40, 41, 45, 51, 52,
 39 57, 61, 71, 75, 77, 87, 88, 89, 91, 92, 96, 97, 100, 104,
 40 106, 109, 111, 113, 117, 120, 126, 149, 151, 153, 154, 157,
 41 178, 187, 189, 191, 211, 214, 310, 608, 704, 708, 712
 42 <223> OTHER INFORMATION: n = A,T,C or G
 44 <221> NAME/KEY: misc_feature
 45 <222> LOCATION: 714, 729, 732
 46 <223> OTHER INFORMATION: n = A,T,C or G
 W--> 48 <400> 1
 W--> 49 aacnnnnntn natggcaccc ccccccaacc tttnnnnccnn ntaanaaaa nnccccnntt 60
 50 nataccccct ntaanantt tccaccnnnc nnaaannccn ctgnanacna ngnaaancn 120
 51 ttttnaacc ccccccaccc ggaattccna nttnncnccc ccaaattaca actccagncc 180
 52 aaaattnana naatttgtcc taacctaacc natngttgtt acggttccc cccccaata 240
 53 catgcactgg cccgaacact tgatcgttgc cggttcaata agaataaatc tggtcatatt 300
 54 aaacaagccn aaagctttac aaactgttgt acaattaatg ggcgaacacg aactgttcga 360
 55 attctggctc ggacattaca aagtgcacca catcgatgg aaccaggaga aggccacaac 420
 56 cgtactgaac gcctggcaga agaagttcgc acaggttggt ggttggcgca aggagtagag 480
 57 tgaatggtg taattttgg ttgttccagg aggtggatcg tctgacgaag agcaagaagt 540
 58 cgtcgattt catttcgtg acgttctcca ccgccaattt gaacaagatg ttgaaggagg 600
 59 cgtcgaaanac ggacgtggtg aagctgggg tggtgctggg ggtggcgccg gtgtacgggt 660
 60 gggtgccca gtcggggctg gtcgccttgg gagtgctggt cttnccngc tncnattcgc 720

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Input Set : A:\PTO.AMC.TXT
Output Set: N:\CRF4\10082004\H916140.raw

61 cctatagtta gncgta 736
 63 <210> SEQ ID NO: 2
 64 <211> LENGTH: 107
 65 <212> TYPE: PRT
 66 <213> ORGANISM: Beetle
 68 <220> FEATURE:
 70 <221> NAME/KEY: VARIANT
 71 <222> LOCATION: 1, 9, 12, 13, 14, 20
 72 <223> OTHER INFORMATION: Xaa = Any Amino Acid
 74 <400> SEQUENCE: 2
 W--> 75 Xaa Pro Pro Pro Asn Tyr Asn Ser Xaa Pro Lys Xaa Xaa Xaa Leu Val
 76 1 5 10 15
 77 Leu Thr Pro Xaa Val Val Thr Val Ser Pro Pro Lys Tyr Met His Trp
 78 20 25 30
 79 Pro Glu His Leu Ile Val Ala Val Pro Ile Arg Ile Asn Leu Val Ile
 80 35 40 45
 81 Leu Asn Lys Pro Lys Ala Leu Gln Thr Val Val Gln Leu Met Gly Glu
 82 50 55 60
 83 His Glu Leu Phe Glu Phe Trp Ser Gly His Tyr Lys Val His His Ile
 84 65 70 75 80
 85 Gly Trp Asn Gln Glu Lys Ala Thr Thr Val Leu Asn Ala Trp Gln Lys
 86 85 90 95
 87 Lys Phe Ala Gln Val Gly Gly Trp Arg Lys Glu
 88 100 105
 91 <210> SEQ ID NO: 3
 92 <211> LENGTH: 5187
 93 <212> TYPE: DNA
 94 <213> ORGANISM: Butterfly
 96 <400> SEQUENCE: 3
 97 gggctgtca cccggagccg gagtccccgg cggccagcag cgtcctcgcg agccgagcgc 60
 98 ccaggcgcgc cccggagcccg cggcggcgcc ggcaacatgg cctcggtctgg taacgcccgc 120
 99 gggccctgg gcagggcaggc cggcggcgccc aggcgcagac ggaccggggg accgcacccgc 180
 100 gccgcgcggg accgggacta tctgcaccgg cccagctact gcgacgcgcg cttcgctctg 240
 101 gagcagattt ccaaggggaa ggctactggc cggaaagcgc cgctgtggct gagagcgaag 300
 102 tttcagagac tcttatttaa actgggttgc tacattcaa agaactgcgg caagttttg 360
 103 gttgtgggtc tcctcatatt tggggccttc gctgtggat taaaggcagc taatctcgag 420
 104 accaacgtgg aggagctgtg gttggaaagt ggtggacgag tgagtcgaga attaaattat 480
 105 acccgtcaga agataggaga agaggctatg tttaatcctc aactcatgat acagactcca 540
 106 aaagaagaag ggcctaattgt tctgaccaca gaggctctcc tgcaacaccc ggactcagca 600
 107 ctccaggcca gtcgtgtca cgtctacatg tataacaggc aatggaaagt ggaacatttg 660
 108 tgctacaaat caggggaaact tatcacggag acaggttaca tggatcagat aatagaatac 720
 109 ctttaccctt gcttaatcat tacacctttg gactgcttct gggaaaggggc aaagctacag 780
 110 tccgggacag cataccctct aggttaagccct cctttacggt ggacaaaactt tgacccttg 840
 111 gaattccat aagagttaaa gaaaataaaac taccaagtgg acagctgggaa ggaaatgctg 900
 112 aataaagccg aagttggcca tgggtacatg gaccggcctt gcctcaaccc agccgaccca 960
 113 gattgccctg ccacagcccc taacaaaaat tcaaccaaac ctcttgatgt ggcccttgc 1020
 114 ttgaatggtg gatgtcaagg ttatccagg aagtatatgc attggcagga ggagttgatt 1080
 115 gtgggtggta ccgtcaagaa tgccactggaa aaacttgtca ggcgtcacgc cctgcaaaacc 1140
 116 atgttccagt taatgactcc caagcaaatg tatgaacact tcaggggcta cgactatgtc 1200

RAW SEQUENCE LISTING

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Input Set : A:\PTO.AMC.TXT

Output Set: N:\CRF4\10082004\H916140.raw

117 tctcacatca actggaatga agacaggcga gcccgcattc tggaggcctg gcagaggact 1260
 118 tacgtggagg tggttcatca aagtgtcgcc ccaaactcca ctcaaaaaggt gcttccttc 1320
 119 aacaaccacga ccctggacga catcctaaaa tccttctctg atgtcagtgt catccagtg 1380
 120 gccagcggct acctactgat gcttgcctat gcctgtttaa ccatgctcg cgctggactgc 1440
 121 tccaagtccc agggtgccgt ggggctggct ggcgtcctgt tggttgcgt gtcagtggct 1500
 122 gcaggattgg gcctctgctc cttgattggc atttcttta atgtcgcac aactcaggtt 1560
 123 ttgccgttcc ttgctttgg tggatgtg gatgatgtct tcctcctggc ccatgcattc 1620
 124 agtgaardac gacagaataa gaggattcca tttgaggaca ggactgggaa gtgcctcaag 1680
 125 cgacccggag ccagcgtggc cctcacctcc atcagcaatg tcaccgcctt cttcatggcc 1740
 126 gcattgatcc ctatccctgc cctgcgagcg ttctccctcc aggtgcgtgt ggtgggtta 1800
 127 ttcaattttg ctatggttct gtcattttt cctgcaattc tcagcatgaa tttatacaga 1860
 128 cgtgaggaca gaagattgg aattttctgc tggttccaa gcccctgtgt cagcagggtg 1920
 129 attcaagttg agccacaggc ctacacagag cctcacagta acacccggta cagcccccca 1980
 130 cccccatatac ccagccacag ctgcggccac gaaacccata tcactatgca gtccaccgtt 2040
 131 cagctccgca cagagtatga ccctcacacg cacgtgtact acaccaccgc cgagccacgc 2100
 132 tctgagatct ctgtacagcc tggatgtg acccaggaca acctcagctg tcagagtccc 2160
 133 gagagcacca gctctaccag ggacctgctc tcccagttct cagactccag cctccactgc 2220
 134 ctcgagcccc cctgcaccaa gtggacactc tttcgatggc cagagaagca ctatgcct 2280
 135 ttccctctga aacccaaagc caaggttgtg gtaatccctc tttccctggg cttgtgggg 2340
 136 gtcagcctt atggaccac ccgagtgaga gacgggctgg acctcacggc cattgttccc 2400
 137 cggaaacca gagaatatac ctccatagct gcccagttca agtacttctc tttctacaac 2460
 138 atgtatatac tcacccagaa agcagactac ccgaatatcc agcacctact ttacgacatt 2520
 139 cataagagtt tcagcaatgt gaagtatgtc atgtggagg agaacaagca acttccccaa 2580
 140 atgtggctgc actacttag agactggctt caaggacttc aggtatgcatt tgacagtgac 2640
 141 tggaaactg ggaggatcat gccaaacaaatataaaaaatg gatcagatgaa cggggcttc 2700
 142 gcttacaaac ttctggcga gactggcagc cgagacaagc ccatcgacat tagtcagttg 2760
 143 actaaacago gtctggtaga cgcagatggc atcattaatc cgagcgtttt ctacatctac 2820
 144 ctgaccgctt gggcagccaa cgaccctgtt gcttacgctt cttcccgagc caacatccgg 2880
 145 cctcaccggc cggagtggtt ccatgacaaa gcccactaca tgccagagac caggctgaga 2940
 146 atccccagcag cagacccat cgagtcgtc cagttccctt tctacatca cggcctacga 3000
 147 gacacccatc acttttgttgg accatagaa aaagtggag tcatctgtaa caactatacg 3060
 148 agcctggacat tgccttgcata ccccaatggc tacccttcc tggttctggg gcaatacatc 3120
 149 agcctgcgc actggctgtc gctatccatc agegtggtgc tggcctgcac gtttcttagtg 3180
 150 tgcgcagtct ttcccttgaa cccctggacg gcccggatca ttgtcatggt cctggctctg 3240
 151 atgaccgttg agctctttgg catgtgggc ctcattggg tcaagctgag tgctgtgcct 3300
 152 gtggcatcc ttgttgcatac ttgtggcattt ggagtggagt tcaccgtcca cgtggctttg 3360
 153 gctttctga cagccattgg ggacaagaac cacaggctt tgctcgctt ggaacacatg 3420
 154 ttgtccctcg ttctggacgg tgcgtgtgtcc actctgtgg gtgtactgt gcttcgggg 3480
 155 tccgaatttg atttcattgtt cagatacttc ttgtccgtcc tggccatttc caccgtctt 3540
 156 ggggttctca atggactgg tctgtgtcct gtcctcttgc cttctttgg accgtgtctt 3600
 157 gaggtgtctc cagccaatgg cctaaacccga ctgcggactc cttgcgttgc gcccgttcca 3660
 158 agtgtcgcc ggtttggcgt gcctctgtt cacacgaaca atgggtctga ttccctccgac 3720
 159 tcggagttaca gctctcagac cacgggtgtt ggcgtcgttgg aggtgtctt gcaatacgaa 3780
 160 gcacacggc gttccggagg ccctggccac caagtgttgc tggaaagccac agaaaaccct 3840
 161 gtctttggcc ggtccactgtt ggtccatccg gactccagac atcagcctcc cttgaccctt 3900
 162 cggcaacacgc cccacccatgg cttctggcattt ttgtccctgt gacggcaagg ccagcggct 3960
 163 cgaaggatc ccccttagaga agcttgcgtt ccacccccc acagaccgcg cagagacgt 4020
 164 ttgtaaattt ctactgaagg gcattctggc cctagcaata gggaccgctc agggccccgt 4080
 165 gggcccggtt ctcacaaccc tcggaaacca acgtccaccg ccatggcag ctctgtggcc 4140

RAW SEQUENCE LISTING

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Input Set : A:\PTO.AMC.TXT

Output Set: N:\CRF4\10082004\H916140.raw

166 agctactgcc agcccatcac cactgtgacg gcttctgctt cggtgactgt tgctgtgcat 4200
 167 cccccgcctg gacctggcg caaccccgaa gggggccct gtccaggcta tgagagctac 4260
 168 cctgagactg atcacgggt attgaggat cctcatgtgc ctttcatgt caggtgtgag 4320
 169 aggaggact caaagggtgga ggtcatagag ctacaggacg tggaatgtga ggagaggccg 4380
 170 tgggggagca gctccaactg agggtaatta aaatctgaag caaagaggcc aaagattgga 4440
 171 aagccccgccc cccacctt tccagaaactg cttgaagaga actgcttggaa attatggaa 4500
 172 ggcagttcat tgtaactgta actgattgta ttattkkgtg aaatatttct ataaaatattt 4560
 173 aaraggtgta cacatgtaat atacatggaa atgctgtaca gtctatttcc tggggcctct 4620
 174 ccactcctgc cccagagtgg ggagaccaca ggggcctt cccctgtgta cattggctc 4680
 175 tgtgccacaa ccaagcttaa cttagttta aaaaaaatct cccagcatat gtcgctgctg 4740
 176 cttaaatattt gtataatttta cttgtataat tctatgcaaa tattgcttat gtaataggat 4800
 177 tatttgtaaa ggtttctgtt taaaatattt taaatttgca tattcacaacc ctgtggtagg 4860
 178 atgaattgtt actgttaact tttgaacacg ctatgcgtgg taattgttta acgagcagac 4920
 179 atgaagaaaa caggttaatc ccagtggctt ctctaggggt agttgtatata ggttcgcata 4980
 180 ggtggatgtg tggatgtc catg tgacttcca atgtactgta ttgtggttt ttgttgtt 5040
 181 tgctgtgtt gttcattttg gtgttttgg ttgctttgta tgatcttagc tctggcttag 5100
 182 gtgggctggg aaggtccagg tcttttctg tcgtgatgct ggtggaaagg tgacccaaat 5160
 183 catctgtcct attctctggg actattc 5187

185 <210> SEQ ID NO: 4

186 <211> LENGTH: 1311

187 <212> TYPE: PRT

188 <213> ORGANISM: Butterfly

190 <220> FEATURE:

192 <221> NAME/KEY: VARIANT

193 <222> LOCATION: 348, 908

194 <223> OTHER INFORMATION: Xaa = Any Amino Acid

196 <400> SEQUENCE: 4

197	Met	Val	Ala	Pro	Asp	Ser	Glu	Ala	Pro	Ser	Asn	Pro	Arg	Ile	Thr	Ala
198	1				5				10					15		
199	Ala	His	Glu	Ser	Pro	Cys	Ala	Thr	Glu	Ala	Arg	His	Ser	Ala	Asp	Leu
200					20				25					30		
201	Tyr	Ile	Arg	Thr	Ser	Trp	Val	Asp	Ala	Ala	Leu	Ala	Leu	Ser	Glu	Leu
202							35		40					45		
203	Glu	Lys	Gly	Asn	Ile	Glu	Gly	Gly	Arg	Thr	Ser	Leu	Trp	Ile	Arg	Ala
204						50		55						60		
205	Trp	Leu	Gln	Glu	Gln	Leu	Phe	Ile	Leu	Gly	Cys	Phe	Leu	Gln	Gly	Asp
206						65		70						75		80
207	Ala	Gly	Lys	Val	Leu	Phe	Val	Ala	Ile	Leu	Val	Leu	Ser	Thr	Phe	Cys
208						85				90				95		
209	Val	Gly	Leu	Lys	Ser	Ala	Gln	Ile	His	Thr	Arg	Val	Asp	Gln	Leu	Trp
210						100			105					110		
211	Val	Gln	Glu	Gly	Gly	Arg	Leu	Glu	Ala	Glu	Leu	Lys	Tyr	Thr	Ala	Gln
212						115			120					125		
213	Ala	Leu	Gly	Glu	Ala	Asp	Ser	Ser	Thr	His	Gln	Leu	Val	Ile	Gln	Thr
214						130		135						140		
215	Ala	Lys	Asp	Pro	Asp	Val	Ser	Leu	Leu	His	Pro	Gly	Ala	Leu	Leu	Glu
216						145		150						155		160
217	His	Leu	Lys	Val	Val	His	Ala	Ala	Thr	Arg	Val	Thr	Val	His	Met	Tyr
218						165			170					175		

RAW SEQUENCE LISTING

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Input Set : A:\PTO.AMC.TXT
 Output Set: N:\CRF4\10082004\H916140.raw

219 Asp Ile Glu Trp Arg Leu Lys Asp Leu Cys Tyr Ser Pro Ser Ile Pro
 220 180 185 190
 221 Asp Phe Glu Gly Tyr His His Ile Glu Ser Ile Ile Asp Asn Val Ile
 222 195 200 205
 223 Pro Cys Ala Ile Ile Thr Pro Leu Asp Cys Phe Trp Glu Gly Ser Lys
 224 210 215 220
 225 Leu Leu Gly Pro Asp Tyr Pro Ile Tyr Val Pro His Leu Lys His Lys
 226 225 230 235 240
 227 Leu Gln Trp Thr His Leu Asn Pro Leu Glu Val Val Glu Glu Val Lys
 228 245 250 255
 229 Lys Leu Lys Phe Gln Phe Pro Leu Ser Thr Ile Glu Ala Tyr Met Lys
 230 260 265 270
 231 Arg Ala Gly Ile Thr Ser Ala Tyr Met Lys Lys Pro Cys Leu Asp Pro
 232 275 280 285
 233 Thr Asp Pro His Cys Pro Ala Thr Ala Pro Asn Lys Lys Ser Gly His
 234 290 295 300
 235 Ile Pro Asp Val Ala Ala Glu Leu Ser His Gly Cys Tyr Gly Phe Ala
 236 305 310 315 320
 237 Ala Ala Tyr Met His Trp Pro Glu Gln Leu Ile Val Gly Gly Ala Thr
 238 325 330 335
 -> 239 Arg Asn Ser Thr Ser Ala Leu Arg Lys Ala Arg Xaa Leu Gln Thr Val
 240 340 345 350
 241 Val Gln Leu Met Gly Glu Arg Glu Met Tyr Glu Tyr Trp Ala Asp His
 242 355 360 365
 243 Tyr Lys Val His Gln Ile Gly Trp Asn Gln Glu Lys Ala Ala Ala Val
 244 370 375 380
 245 Leu Asp Ala Trp Gln Arg Lys Phe Ala Ala Glu Val Arg Lys Ile Thr
 246 385 390 395 400
 247 Thr Ser Gly Ser Val Ser Ser Ala Tyr Ser Phe Tyr Pro Phe Ser Thr
 248 405 410 415
 249 Ser Thr Leu Asn Asp Ile Leu Gly Lys Phe Ser Glu Val Ser Leu Lys
 250 420 425 430
 251 Asn Ile Ile Leu Gly Tyr Met Phe Met Leu Ile Tyr Val Ala Val Thr
 252 435 440 445
 253 Leu Ile Gln Trp Arg Asp Pro Ile Arg Ser Gln Ala Gly Val Gly Ile
 254 450 455 460
 255 Ala Gly Val Leu Leu Ser Ile Thr Val Ala Ala Gly Leu Gly Phe
 256 465 470 475 480
 257 Cys Ala Leu Leu Gly Ile Pro Phe Asn Ala Ser Ser Thr Gln Ile Val
 258 485 490 495
 259 Pro Phe Leu Ala Leu Gly Leu Gly Val Gln Asp Met Phe Leu Leu Thr
 260 500 505 510
 261 His Thr Tyr Val Glu Gln Ala Gly Asp Val Pro Arg Glu Glu Arg Thr
 262 515 520 525
 263 Gly Leu Val Leu Lys Lys Ser Gly Leu Ser Val Leu Leu Ala Ser Leu
 264 530 535 540
 265 Cys Asn Val Met Ala Phe Leu Ala Ala Ala Leu Leu Pro Ile Pro Ala
 266 545 550 555 560
 267 Phe Arg Val Phe Cys Leu Gln Ala Ala Ile Leu Leu Phe Asn Leu

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/08/916,140

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Input Set : A:\PTO.AMC.TXT
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 4,5,7,8,10,11,23,34,35,36,39,40,41,45,51,52,57,61,71,75,77
Seq#:1; N Pos. 87,88,89,91,92,96,97,100,104,106,109,111,113,117,120,126,149
Seq#:1; N Pos. 151,153,154,157,178,187,189,191,211,214,310,608,704,708,712
Seq#:1; N Pos. 714,729,732
Seq#:2; Xaa Pos. 1,9,12,13,14,20
Seq#:4; Xaa Pos. 348,908
Seq#:7; N Pos. 114,225,261
Seq#:8; Xaa Pos. 75,87
Seq#:14; N Pos. 16,25
Seq#:15; N Pos. 24
Seq#:16; N Pos. 13,16
Seq#:17; N Pos. 20

VERIFICATION SUMMARY
PATENT APPLICATION: US/08/916,140

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Input Set : A:\PTO.AMC.TXT
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L:48 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
M:341 Repeated in SeqNo=1
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
M:341 Repeated in SeqNo=2
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:336
M:341 Repeated in SeqNo=4
L:627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60
M:341 Repeated in SeqNo=7
L:653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:64
M:341 Repeated in SeqNo=8
L:992 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:996 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:1007 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1011 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:1012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1022 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1026 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:1027 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:1037 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1041 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:1042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/916,140

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Input Set : A:\CIBT-P04-203.TXT
 Output Set: N:\CRF4\10072004\H916140.raw

4 <110> APPLICANT: Scott Mathew P.
 5 Goodrich, Lisa V.
 6 Johnson, Ronald L.
 7 Epstein, Ervin Jr.
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 30 <210> SEQ ID NO: 1
 31 <211> LENGTH: 736
 32 <212> TYPE: DNA
 33 <213> ORGANISM: *Bettle*
 35 <220> FEATURE:
 37 <221> NAME/KEY: misc_feature
 38 <222> LOCATION: 4, 5, 7, 8, 10, 11, 23, 34, 35, 36, 39, 40, 41, 45, 51, 52,
 39 53, 61, 71, 75, 77, 87, 88, 89, 91, 92, 96, 97, 100, 104,
 40 106, 109, 111, 113, 117, 120, 126, 149, 151, 153, 154, 157,
 41 178, 187, 189, 191, 211, 214, 310, 608, 704, 708, 712
 42 <223> OTHER INFORMATION: n = A,T,C or G
 44 <221> NAME/KEY: misc_feature
 45 <222> LOCATION: 714, 729, 732
 46 <223> OTHER INFORMATION: n = A,T,C or G
 W--> 48 <400> 1
 W--> 49 aacnnnnntn natggcaccc ccncccaacc tttnnncnn ntaancaaaa nnccccnttt 60
 W--> 50 nataccccct ntaananttt tccaccnnnc nnnaannncn ctgnanacna ngnaaanccn 120
 W--> 51 ttttnaacc ccccccaccc ggaattccna nttnncncc ccaaattaca actccagncc 180
 W--> 52 aaaattnana naatttgtcc taacctaacc natngttgtt acggtttccc cccccaata 240
 53 catgcactgg cccgaacact tgatcggtgc cggttccaaata agaataaaatc tggtcataatt 300
 W--> 54 aaacaagccn aaagctttac aaactgttgc acaattaatg ggcgaacacg aactgttcga 360
 55 attctggctc ggacattaca aagtgcacca catcgatgg aaccaggaga aggccacaac 420
 56 cgtactgaac gcctggcaga agaagttcgc acaggttggt ggttggcgcgca aggagtagag 480
 57 tgaatggtgg taattttgg ttgttccagg aggtggatcg tctgacgaaag agcaagaagt 540
 58 cgtcgaatta catttcgtg acgttctcca ccgcattt gaacaagatg ttgaaggagg 600
 W--> 59 cgtcgaanac ggacgtggtg aagctgggg tggtgttgg ggtggcggcg gtgtacgggt 660
 W--> 60 gggtggccca gtcggggctg gctgccttgg gagtgcttgg cttnngcgnngc tncnattcgc 720

*Does Not Comply
Corrected Diskette Needed*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/916,140

DATE: 10/07/2004
TIME: 10:36:12

Input Set : A:\CIBT-P04-203.TXT
Output Set: N:\CRF4\10072004\H916140.raw

W--> 61 cctatacgtna gncgtta 736
 63 <210> SEQ ID NO: 2
 64 <211> LENGTH: 107
 65 <212> TYPE: PRT
 66 <213> ORGANISM: Beetle
 68 <220> FEATURE:
 70 <221> NAME/KEY: VARIANT
 71 <222> LOCATION: 1,-9,-12,-13,-14,-20
 72 <223> OTHER INFORMATION: Xaa = Any Amino Acid
 74 <400> SEQUENCE: 2
 W--> 75 Xaa Pro Pro Pro Asn Tyr Asn Ser Xaa Pro Lys Xaa Xaa Xaa Leu Val
 76 1 5 10 15
 W--> 77 Leu Thr Pro Xaa Val Val Thr Val Ser Pro Pro Lys Tyr Met His Trp
 78 20 25 30
 79 Pro Glu His Leu Ile Val Ala Val Pro Ile Arg Ile Asn Leu Val Ile
 80 35 40 45
 81 Leu Asn Lys Pro Lys Ala Leu Gln Thr Val Val Gln Leu Met Gly Glu
 82 50 55 60
 83 His Glu Leu Phe Glu Phe Trp Ser Gly His Tyr Lys Val His His Ile
 84 65 70 75 80
 85 Gly Trp Asn Gln Glu Lys Ala Thr Thr Val Leu Asn Ala Trp Gln Lys
 86 85 90 95
 87 Lys Phe Ala Gln Val Gly Gly Trp Arg Lys Glu
 88 100 105
 91 <210> SEQ ID NO: 3
 92 <211> LENGTH: 5187
 93 <212> TYPE: DNA
 94 <213> ORGANISM: Butterfly
 96 <400> SEQUENCE: 3
 97 gggtctgtca cccggagccg gagtccccgg cgccgcacag cgtcctcgcg agccgagcgc 60
 98 ccaggcgcgc ccggagcccg cggggggggc ggcaacatgg cctcggctgg taacgcccgc 120
 99 gggccctgg gcaggcagggc cggggggggc aggcgcacac ggaccgggggg accgcaccgc 180
 100 gccgcgcgg accgggacta tctgcacccgg cccagctact ggcacgcgc ctgcgtctg 240
 101 gagcagatt ccaaggggaa ggctactggc cggaaagcgc cgctgtggct gagagcgaag 300
 102 tttcagagac tcttattaa actgggttgt tacattcaa agaactgcgg caagtttttg 360
 103 gttgtgggtc tcctcatatt tggggccttc gctgtggat taaaggcgc taatctcgag 420
 104 accaacgtgg aggagctgtg ggtggaaagt ggtggacgag tgagtgcaga attaaattat 480
 105 acccgtcaga agataggaga agaggctatg tttaatctc aactcatgt acagactcca 540
 106 aaagaagaag ggcctaattgt tctgaccaca gaggctctcc tgcacacacct ggactcagca 600
 107 ctccaggcga gtcgtgtca cgtctacatg tataacaggc aatggaaagt ggaacatttgc 660
 108 tgctacaaat caggggaaact tatacaggag acaggttaca tggatcagat aatagaatac 720
 109 ctttaccctt gcttaatcat tacacccttg gactgcttct gggaaaggggc aaagctacag 780
 110 tccggacag catacctcct aggttaagcct cctttacggt ggacaaaactt tgacccttgc 840
 111 gaattccttag aagagttaaa gaaaataaaac taccaaagtgg acagctggga ggaaatgctg 900
 112 aataaagccg aagtggcca tgggtacatg gaccggcctt gctcaaccc agccgaccga 960
 113 gattgccctg ccacagcccc taacaaaaat tcaaccaaac ctcttgatgt ggcccttgc 1020
 114 ttgaatgggt gatgtcaagg tttatccagg aagtatatgc atggcagga ggagttgatt 1080
 115 gtgggtggta ccgtcaagaa tgccactggaa aacttgtca ggcgtcacgc cctgcaaacc 1140
 116 atgttccagt taatgactcc caagcaaattt tatgaacact tcagggctca cgactatgtc 1200

RAW SEQUENCE LISTING

DATE: 10/07/2004
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Input Set : A:\CIBT-P04-203.TXT
Output Set: N:\CRF4\10072004\H916140.raw

117 ttcacatca actggaatga agacaggggca ggcgcattcc tggaggcctg gcagaggact 1260
118 tacgtggagg tggttcatca aagtgtcgcc ccaaactcca ctcaaaagggt gttcccttc 1320
119 acaaccacga ccctggacga catcctaaaa tccttctctg atgtcagtgt catccgagtg 1380
120 gccagcggct acctactgat gcttgcctat gcctgttta ccatgctgct ctgggactgc 1440
121 tccaagtccc agggtggcgt ggggctggct ggcgtcctgt tggttgcgt gtcagtggct 1500
122 gcaggattgg gcctctgct cttgattggc atttcttta atgctgcac aactcagggt 1560
123 ttgccgttc ttgctcttg tttgggtgtg gatgatgtct tcctcctggc ccatgcattc 1620
124 agtgaacacag gacagaataa gaggattcca tttgaggaca ggactgggaa gtgcctcaag 1680
125 cgcacccggag ccagcgtggc cctcacccctc atcagaatg tcaccgcct cttcatggcc 1740
126 gcattgatcc ctatccctgc cctgcgagcg ttctccctcc aggctgctgt ggtgggt 1800
127 ttcaattttg ctatggtct gtcattttt cctgcaattc tcagcatgga tttatatacaga 1860
128 cgtgaggaca gaagattgga tattttctgc tggttcacaa gcccctgtgt cagcagggtg 1920
129 attcaagttg agccacaggc ctacacagag cctcacagta acacccggta cagcccccca 1980
130 cccccataca ccagccacag ctgcggccac gaaaccata tcactatgca gtccaccgtt 2040
131 cagctccgca cagagtatga ccctcacacg cacgtgtact acaccacccg ctagccacgc 2100
132 tctgagatct ctgtacagcc ttttaccgtc acccaggaca acctcagctg tcagagtccc 2160
133 gagagcacca gctctaccag ggacctgctc tcccagttt cagactccag cctccactgc 2220
134 ctcgagcccc cctgcaccaa gtggacactc ttttcgtttt cagagaagca ctatgctct 2280
135 ttccctctga aacccaaagc caaggttgg ttaatccctc ttttctctggg cttgtctggg 2340
136 gtcagcctt atgggaccac ccgagtgaga gacgggctgg acctcacgga cattgttccc 2400
137 cgggaaacca gagaatatga ctcatagct gcccagttca agtacttctc tttctacaac 2460
138 atgtatatacg tcacccagaa agcagactac cgaatatcc agcacctact ttacgacctt 2520
139 cataagagtt tcagcaatgt gaagttatgtc atgtggagg agaacaagca acttccccaa 2580
140 atgtggctgc actactttag agactggctt caaggactc aggatgcatt tgacagtgc 2640
141 tggaaaactg ggaggatcat gccaacaaat tataaaaatg gatcagatga cggggctcctc 2700
142 gcttacaaac tcctggtgca gactggcagc cgagacaagc ccatcgacat tagtcagttg 2760
143 actaaacagc gtctggtaga cgcagatggc atcatataatc cgagcgctt ctacatctac 2820
144 ctgaccgctt gggtcagcaa cgaccctgtc gcttacgctg cttcccgaggc caacatccgg 2880
145 cctcaccggc cggagttgggt ccatgacaaa gcccactaca tgccagagac caggctgaga 2940
146 atccccagcag cagagcccat cgagtacgct cagttccctt tctacctcaa cggccctacga 3000
147 gacacctcag acttttgtga acccatagaa aaagtggag tcatctgtaa caactatacg 3060
148 agcctggac tgcgttgcata cccaaatggc tacccttcc ttgttctggg gcaatatactc 3120
149 agcctgcgcc actggctgtc gctatccatc agcgtggc tggcctgcac gttttagtg 3180
150 tgcgcagtct tcctctgaa cccctggacq gcccggatca ttgtcatggt cctggctctg 3240
151 atgaccgttg agctttttgg catgtatggc ctcattggga tcaagctgag tgctgtgcct 3300
152 gtggtcatcc tgattgcata ttttggcata ggagtggagt tcaccgtcca cgtggctttg 3360
153 gccttctga cagccattgg ggacaagaac cacagggtca tgctcgctct ggaacacatg 3420
154 tttgtccccg ttctggacgg ttttgcgttcc actctgtgg gtgtactgt gtttgcagg 3480
155 tccgaatttg atttcattgt cagatacttc ttgcgttcc tggccatttc caccgtctt 3540
156 ggggttcata atggactgtt ttttgcgttcc gtcctttat cttttttgg accgtgtct 3600
157 gaggtgtctc cagccaatgg cctaaacccg cttccactc ttgcgttca gcccgcctca 3660
158 agtgtcgcc gtttgcgttcc gcttgcgttcc cacaccaaca atgggtctga ttccctccgac 3720
159 tcggagtaca gtcctcagac cacgggtgtct ggcacatgtt aggagctcag gcaatatacg 3780
160 gcacagcagg gtgcggagg ccctggccac caagtgttgg tggaaagccac agaaaaaccc 3840
161 gtcttgcctt ggtccactgt ggtccatccg gactccagac atcagcctcc cttgaccctt 3900
162 cggcaacagc cccacctggc ctgtggctcc ttgtccctt gacggcaagg ccagcaggct 3960
163 cgaagggttcc ccccttagaga aggttgcgg ccacccccc acagaccgcg cagagacgt 4020
164 tttgaaattt ctactgaagg gatattgttcc ctttgcgttca gggaccgtc agggccccgt 4080
165 qqqccccqtt ctcacaaccc tcggaaacca acgtccaccg ccatgggcag ctctgtgcct 4140

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/916,140

DATE: 10/07/2004

TIME: 10:36:12

Input Set : A:\CIBT-P04-203.TXT

Output Set: N:\CRF4\10072004\H916140.raw

166 agctactgcc agcccatcac cactgtgacg gcttctgctt cggtgactgt tgctgtgcat 4200
 167 ccccccgcgt gacctggcg caaccccgaa gggggggccct gtccaggcta tgagagctac 4260
 168 cctgagactg atcacggggt atttgaggat cctcatgtgc ctttcatgt caggtgttag 4320
 169 aggaggact caaagggtgga ggtcatagag ctacaggacg tggaatgtga ggagaggccg 4380
 170 tgggggagca gctccaactg aggtaatta aaatctgaag caaagaggcc aaagattgga 4440
 171 aagcccgcc cccacctt tccagaactg cttgaagaga actgcttggaa attatggaa 4500
 172 ggcagttcat tgttactgtt actgattgtt ttattkkgta aataatttct ataaatattt 4560
 173 aaraggtgta cacatgtaat atacatggaa atgctgtaca gtctatttcc tggggcctct 4620
 174 ccactcctgc cccagagtgg ggagaccaca gggccctt cccctgtgta cattggctc 4680
 175 tgtgccacaa ccaagcttaa cttagttta aaaaaaatct cccagcatat gtcgctgctg 4740
 176 cttaaatattt gtataatttta cttgtataat tctatgaaa tattgcttat gtataggat 4800
 177 tatttgtaaa ggttctgtt taaaatattt taaatttgc tatcacaacc ctgtggtagg 4860
 178 atgaatttgtt actgttaact tttgaacacg ctatgcgtgg taattgttta acgagcagac 4920
 179 atgaagaaaa caggttaatc ccagtggctt ctctaggggt agttgtatat ggttcgcattg 4980
 180 ggtggatgtg tggatgtc catg tgactttcca atgtactgtt ttgtggtttgg ttgtgttgt 5040
 181 tgctgttgtt gttcattttg gtgttttgg ttgcttgta tgatcttagc tctggccatg 5100
 182 gtggcgtggg aaggtccagg tcttttctg tcgtgatgct ggtggaaagg tgacccaaat 5160
 183 catctgtcct attctctggg actattc 5187

185 <210> SEQ ID NO: 4

186 <211> LENGTH: 1311

187 <212> TYPE: PRT

188 <213> ORGANISM: Butterfly

190 <220> FEATURE:

192 <221> NAME/KEY: VARIANT

193 <222> LOCATION: 348, 908

194 <223> OTHER INFORMATION: Xaa = Any Amino Acid

196 <400> SEQUENCE: 4

197	Met	Val	Ala	Pro	Asp	Ser	Glu	Ala	Pro	Ser	Asn	Pro	Arg	Ile	Thr	Ala
198	1				5				10					15		
199	Ala	His	Glu	Ser	Pro	Cys	Ala	Thr	Glu	Ala	Arg	His	Ser	Ala	Asp	Leu
200					20				25					30		
201	Tyr	Ile	Arg	Thr	Ser	Trp	Val	Asp	Ala	Ala	Leu	Ala	Leu	Ser	Glu	Leu
202						35			40					45		
203	Glu	Lys	Gly	Asn	Ile	Glu	Gly	Gly	Arg	Thr	Ser	Leu	Trp	Ile	Arg	Ala
204						50			55					60		
205	Trp	Leu	Gln	Glu	Gln	Leu	Phe	Ile	Leu	Gly	Cys	Phe	Leu	Gln	Gly	Asp
206						65			70			75			80	
207	Ala	Gly	Lys	Val	Leu	Phe	Val	Ala	Ile	Leu	Val	Leu	Ser	Thr	Phe	Cys
208						85				90					95	
209	Val	Gly	Leu	Lys	Ser	Ala	Gln	Ile	His	Thr	Arg	Val	Asp	Gln	Leu	Trp
210						100			105					110		
211	Val	Gln	Glu	Gly	Gly	Arg	Leu	Glu	Ala	Glu	Leu	Lys	Tyr	Thr	Ala	Gln
212						115			120					125		
213	Ala	Leu	Gly	Glu	Ala	Asp	Ser	Ser	Thr	His	Gln	Leu	Val	Ile	Gln	Thr
214						130			135					140		
215	Ala	Lys	Asp	Pro	Asp	Val	Ser	Leu	Leu	His	Pro	Gly	Ala	Leu	Leu	Glu
216	145					145			150			155			160	
217	His	Leu	Lys	Val	Val	His	Ala	Ala	Thr	Arg	Val	Thr	Val	His	Met	Tyr
218						165			170					175		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/916,140

DATE: 10/07/2004
TIME: 10:36:12

Input Set : A:\CIBT-P04-203.TXT
Output Set: N:\CRF4\10072004\H916140.raw

219 Asp Ile Glu Trp Arg Leu Lys Asp Leu Cys Tyr Ser Pro Ser Ile Pro
 220 180 185 190
 221 Asp Phe Glu Gly Tyr His His Ile Glu Ser Ile Ile Asp Asn Val Ile
 222 195 200 205
 223 Pro Cys Ala Ile Ile Thr Pro Leu Asp Cys Phe Trp Glu Gly Ser Lys
 224 210 215 220
 225 Leu Leu Gly Pro Asp Tyr Pro Ile Tyr Val Pro His Leu Lys His Lys
 226 225 230 235 240
 227 Leu Gln Trp Thr His Leu Asn Pro Leu Glu Val Val Glu Glu Val Lys
 228 245 250 255
 229 Lys Leu Lys Phe Gln Phe Pro Leu Ser Thr Ile Glu Ala Tyr Met Lys
 230 260 265 270
 231 Arg Ala Gly Ile Thr Ser Ala Tyr Met Lys Lys Pro Cys Leu Asp Pro
 232 275 280 285
 233 Thr Asp Pro His Cys Pro Ala Thr Ala Pro Asn Lys Lys Ser Gly His
 234 290 295 300
 235 Ile Pro Asp Val Ala Ala Glu Leu Ser His Gly Cys Tyr Gly Phe Ala
 236 305 310 315 320
 237 Ala Ala Tyr Met His Trp Pro Glu Gln Leu Ile Val Gly Gly Ala Thr
 238 325 330 335
 W--> 239 Arg Asn Ser Thr Ser Ala Leu Arg Lys Ala Arg Xaa Leu Gln Thr Val
 240 340 345 350
 241 Val Gln Leu Met Gly Glu Arg Glu Met Tyr Glu Tyr Trp Ala Asp His
 242 355 360 365
 243 Tyr Lys Val His Gln Ile Gly Trp Asn Gln Glu Lys Ala Ala Ala Val
 244 370 375 380
 245 Leu Asp Ala Trp Gln Arg Lys Phe Ala Ala Glu Val Arg Lys Ile Thr
 246 385 390 395 400
 247 Thr Ser Gly Ser Val Ser Ser Ala Tyr Ser Phe Tyr Pro Phe Ser Thr
 248 405 410 415
 249 Ser Thr Leu Asn Asp Ile Leu Gly Lys Phe Ser Glu Val Ser Leu Lys
 250 420 425 430
 251 Asn Ile Ile Leu Gly Tyr Met Phe Met Leu Ile Tyr Val Ala Val Thr
 252 435 440 445
 253 Leu Ile Gln Trp Arg Asp Pro Ile Arg Ser Gln Ala Gly Val Gly Ile
 254 450 455 460
 255 Ala Gly Val Leu Leu Ser Ile Thr Val Ala Ala Gly Leu Gly Phe
 256 465 470 475 480
 257 Cys Ala Leu Leu Gly Ile Pro Phe Asn Ala Ser Ser Thr Gln Ile Val
 258 485 490 495
 259 Pro Phe Leu Ala Leu Gly Leu Gly Val Gln Asp Met Phe Leu Leu Thr
 260 500 505 510
 261 His Thr Tyr Val Glu Gln Ala Gly Asp Val Pro Arg Glu Glu Arg Thr
 262 515 520 525
 263 Gly Leu Val Leu Lys Lys Ser Gly Leu Ser Val Leu Leu Ala Ser Leu
 264 530 535 540
 265 Cys Asn Val Met Ala Phe Leu Ala Ala Ala Leu Leu Pro Ile Pro Ala
 266 545 550 555 560
 267 Phe Arg Val Phe Cys Leu Gln Ala Ala Ile Leu Leu Phe Asn Leu

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/08/916,140

DATE: 10/07/2004
TIME: 10:36:13

Input Set : A:\CIBT-P04-203.TXT
Output Set: N:\CRF4\10072004\H916140.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 4,5,7,8,10,11,23,34,35,36,39,40,41,45,51,52,57,61,71,75,77
Seq#:1; N Pos. 87,88,89,91,92,96,97,100,104,106,109,111,113,117,120,126,149
Seq#:1; N Pos. 151,153,154,157,178,187,189,191,211,214,310,608,704,708,712
Seq#:1; N Pos. 714,729,732
Seq#:2; Xaa Pos. 1,9,12,13,14,20
Seq#:4; Xaa Pos. 348,908
Seq#:7; N Pos. 114,225,261
Seq#:8; Xaa Pos. 75,87
Seq#:14; N Pos. 16,25
Seq#:15; N Pos. 24
Seq#:16; N Pos. 13,16
Seq#:17; N Pos. 20

VERIFICATION SUMMARY
PATENT APPLICATION: US/08/916,140

DATE: 10/07/2004
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Input Set : A:\CIBT-P04-203.TXT
Output Set: N:\CRF4\10072004\H916140.raw

L:48 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:120
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:180
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:300
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:600
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:660
L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:720
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:16
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:336
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:896
L:627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60
L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:180
L:630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:240
L:653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:64
L:655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:80
L:992 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:996 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:997 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:1007 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1011 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:1012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1022 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1026 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:1027 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:1037 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1041 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:1042 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0